

CLAIMS

1. A backflow preventing plug comprising a thin film resilient membrane defining a flow path having an intake port and an outlet port, and a ball-shaped plug member retained in the flow path in the resilient membrane and formed with a spherical sealing surface for restricting flow of fluid by coming into resilient contact with a middle portion of the resilient membrane.

2. A backflow preventing plug according to Claim 1, characterized in that the resilient membrane is formed of an elastic rubber member which can be expanded and deformed in a direction away from the plug member by a fluid pressure applied from the intake port.

3. A backflow preventing plug according to Claim 1, characterized in that the plug member has a spherical shape.

4. A backflow preventing plug according to Claim 1, characterized in that the plug member has an ellipsoidal shape.

5. A backflow preventing plug according to Claim 1, characterized in that the outlet port is formed in a slit-shape.

6. A backflow preventing plug according to Claim 1,

characterized in that the resilient membrane has an inner surface formed with an annular projection which can come into tight contact with the plug member.

7. A backflow preventing plug according to Claim 1, characterized by further comprising discharge guiding means for guiding contents which has been passing through the flow path with expanding the resilient membrane by an increase in fluid pressure on the intake port side toward the outlet port.

8. A backflow preventing plug according to Claim 1, characterized by further comprising a clearance forming projection for forming a clearance for guiding flow of fluid contents to the outlet port by positioning the plug member with respect to the outlet port.

9. A backflow preventing plug according to Claim 1, characterized by further comprising separating means for separating the outlet port and the plug member so as to prevent the same from coming into tight contact with each other when contents are discharged from the outlet port.

10. A container characterized in that the backflow preventing plug according to any one of Claims 1 to 9 is attached to a container opening of a container body thereof accommodating

contents.

11. A container according to Claim 10 characterized by comprising fixed quantity discharging means for allowing contents to be discharged by a fixed quantity.

12. A container according to Claim 10 characterized in that the container body is formed in a contractively deformable bag shape for discharging contents from the container opening.

13. A container according to Claim 11 characterized in that the container body is formed in a contractively deformable bag shape for discharging contents from the container opening.

14. A container according to Claim 10 characterized in that the container body is formed in a contractively deformable accordion shape for discharging contents from the container opening.

15. A container according to Claim 11 characterized in that the container body is formed in a contractively deformable accordion shape for discharging contents from the container opening.

16. A container according to Claim 10 characterized in that

the container body includes a cylindrical member for accommodating contents, and an axially slidable piston fitted into the cylindrical member.

17. A container according to Claim 11 characterized in that the container body includes a cylindrical member for accommodating contents, and an axially slidable piston fitted into the cylindrical member.

18. A pouring device characterized by comprising an outer mantle surrounding the container body of the container according to Claim 12 through a space therebetween, the outer mantle being resiliently deformable so as to contractingly deform the container body through air in the space by a resilient deformation thereof due to an external pressure.

19. A pouring device characterized by comprising an outer mantle surrounding the container body of the container according to Claim 13 through a space therebetween, the outer mantle being resiliently deformable so as to contractingly deform the container body through air in the space by a resilient deformation thereof due to an external pressure.

20. A pouring device characterized by comprising a container holder for holding the container according to Claim 14 and

allowing the container body to be pressurized from the container opening side for contracting deformation.

21. A pouring device characterized by comprising a container holder for holding the container according to Claim 15 and allowing the container body to be pressurized from the container opening side for contracting deformation.

22. A pouring device characterized by comprising a cartridge holder for supporting the container according to Claim 16, and a fixed quantity discharging mechanism for causing contents to be poured by a predetermined small amount at every pushing operation for discharging the contents from the container opening of the container.

23. A pouring device characterized by comprising a pushing member for pushing the piston with respect to the cylindrical member of the container according to Claim 16 in a content discharging direction.

24. A pouring device characterized by comprising a pushing member for pushing the piston with respect to the cylindrical member of the container according to Claim 17 in a content discharging direction.